# The Trail Inventory of Willapa NWR

Ilwaco, WA





Prepared By: Federal Highway Administration Central Federal Lands Highway Division October, 2012



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#### Willapa NWR

#### **Trail and Trail Feature Summaries**

Trail Miles and Percentages by Surface Type and Condition

Trail Surface	Excel	lent	Othe	ers	Total
Туре	Miles	%	Miles	%	Miles
Native	11.82	100%	0.00	0%	11.82
Gravel	0.09	100%	0.00	0%	0.09
Boardwalk	0.11	100%	0.00	0%	0.11
Wood Chip	0.22	100%	0.00	0%	0.22
Admin Road	0.00	0%	5.88	100%	5.88
Other	0.97	100%	0.00	0%	0.97
Total	13.21	69%	5.88	31%	19.09

#### Trail Miles and Percentages by Trail Classification and Condition

Trail	Excellent		Othe	rs	Total
Classification	Miles	%	Miles	%	Miles
TC1	0.58	100%	0.00	0%	0.58
TC2	6.97	100%	0.00	0%	6.97
TC3	5.46	48%	5.88	52%	11.34
TC4	0.20	100%	0.00	0%	0.20
Total	13.21	69%	5.88	31%	19.09

<sup>\*</sup>Admin Roads are included in the inventory but are not rated for condition.

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#### **Trail Features**

Trail Number	Feature Type	Quantity	Grouped	Milepost	Photo
T200	Trailhead	1	Feature No	0.00	WILL C2 050
1200	пашеас	'	NO	0.00	WILL_C3_059 2
T200	Sign	2	No	0.00	WILL_C3_059 0
T200	Sign	13	Yes	0.19	WILL_C3_059
T200	Max Grade- %	17	No	1.22	
T200	Sign	1	No	1.23	WILL_C3_059 4
T200	Sign	1	No	1.24	WILL_C3_059 5
T200	Begin Section	1	No	1.35	WILL_C3_059 6
T200	Begin Section	1	No	1.94	WILL_C3_059 7
T200	Sign	1	No	1.99	WILL_C3_059 8
T200	Sign	6	No	1.99	WILL_C3_059 9
T200	Sign	1	No	1.99	WILL_C3_060 0
T200	Sign	1	No	2.78	WILL_C3_060 1
T201	Trailhead	1	No	0.00	WILL_C3_057
T201	Max Grade- %	10	No	0.03	
T202	Sign	1	No	0.00	WILL_C3_062 0
T202	Trailhead	1	No	0.00	WILL_C3_062 1
T202	Max Grade- %	20	No	0.35	
T202	Sign	2	No	0.52	WILL_C3_061 9
T203	Trailhead	1	No	0.00	WILL_C3_057 0
T203	Max Grade- %	10	No	0.02	
T203	Culvert -If	6	No	0.37	
T204	Sign	1	No	0.00	WILL_C3_056 6
T204	Trailhead	1	No	0.00	WILL_C3_056 8
T204	Max Grade- %	30	No	0.25	
T205	Trailhead	1	No	0.00	WILL_C3_055 7

T205	Intersection	1	No	0.00	WILL_C3_055 8
T205	Boardwalk -If	20	No	0.18	WILL_C3_055
T205	Sign	2	No	0.22	WILL_C3_056 0
T205	Sign	1	No	0.23	WILL_C3_056
T205	Sign	1	No	0.24	WILL_C3_056 5
T205	Boardwalk -If	55	No	0.34	WILL_C3_056 4
T205	Boardwalk -lf	10	No	0.36	WILL_C3_056
T205	Boardwalk -If	22	No	0.40	WILL_C3_056 2
T205	Max Grade- %	29	No	0.49	
T206	Sign	1	No	0.00	WILL_C3_054
T206	Intersection	1	No	0.00	WILL_C3_055
T206	Trailhead	1	No	0.00	WILL_C3_055 0
T206	Max Grade- %	8	No	0.14	
T206	Begin Section	1	No	0.48	WILL_C3_055
T206	Sign	1	No	0.48	WILL_C3_055 2
T206	Begin Section	1	No	0.48	WILL_C3_055 5
T206	Sign	2	No	0.63	WILL_C3_055 4
T300	Trailhead	1	No	0.00	WILL_C3_058 2
T300	Sign	2	No	0.00	WILL_C3_058
T300	Boardwalk -lf	30	No	0.06	WILL_C3_058 4
T300	Sign	1	No	0.06	WILL_C3_058 5
T300	Sign	1	No	0.07	WILL_C3_058
T300	Begin Section	1	No	0.07	WILL_C3_058
T300	Begin Section	1	No	0.45	WILL_C3_058 7
T300	Sign	5	No	0.45	WILL_C3_058
T300	Sign	2	No	0.46	WILL_C3_058
T300	Intersection	1	No	0.56	WILL_C3_059

T300	Max Grade- %	7	No	0.70	
T300	Sign	3	Yes	0.99	WILL_C3_060 5
T300	Sign	1	No	1.01	WILL_C3_060 4
T300	Begin Section	1	No	1.07	WILL_C3_060
T300	Intersection	1	No	1.08	
T300	Sign	1	No	1.08	WILL_C3_060 2
T300	Sign	4	No	1.11	WILL_C3_060 6
T301	Trailhead	1	No	0.00	WILL_C3_054 7
T301	Max Grade- %	18	No	0.36	
T301	Sign	1	No	1.00	WILL_C3_054 8
T301	Sign	1	No	2.64	WILL_C3_055
T301	Intersection	1	No	2.87	WILL_C3_056 7
T301	Intersection	1	No	3.94	WILL_C3_056
T301	Water Control Struc	1	No	4.28	
T301	Begin Section	1	No	4.40	WILL_C3_057
T301	Intersection	1	No	4.87	WILL_C3_062 2
T301	Begin Section	1	No	5.54	WILL_C3_062
T301	Culvert -If	8	No	5.94	
T301	Culvert -If	12	No	6.33	
T302	Trailhead	1	No	0.00	WILL_C3_057
T302	Intersection	1	No	0.00	WILL_C3_057
T302	Max Grade- %	8	No	0.08	
T302	Water Control Struc	1	No	0.39	
T302	Culvert -If	12	No	0.45	
T302	Culvert -If	12	No	0.68	
T302	Bridge -sf	24	No	0.74	WILL_C3_057 4
T302	Begin Section	1	No	1.18	WILL_C3_057
T302	Begin Section	1	No	1.18	WILL_C3_062 8
T302	Culvert -If	8	No	1.36	
T302	Begin Section	1	No	1.55	WILL_C3_058
T302	Culvert -If	5	No	1.66	-

T302	Begin Section	1	No	1.91	WILL_C3_057
T302	Culvert -If	6	No	1.98	,
T302	Intersection	1	No	2.24	WILL_C3_057
T303	Bench	3	No	0.00	
T303	Trailhead	1	No	0.00	WILL_C3_061 8
T303	Sign	4	No	0.00	WILL_C3_060 7
T303	Max Grade- %	40	No	0.03	
T303	Bridge -sf	6	No	0.08	WILL_C3_060 8
T303	Bridge -sf	12	No	0.10	WILL_C3_060 9
T303	Bridge -sf	12	No	0.11	WILL_C3_061 0
T303	Bridge -sf	6	No	0.11	WILL_C3_061
T303	Bridge -sf	32	No	0.14	WILL_C3_061 2
T303	Bridge -sf	52	No	0.16	WILL_C3_061
T303	Bridge -sf	24	No	0.19	WILL_C3_061 4
T303	Bridge -sf	24	No	0.21	WILL_C3_061 5
T303	Bridge -sf	28	No	0.22	WILL_C3_061 6
T304	Trailhead	1	No	0.00	WILL_C3_054 5
T304	Gate	1	No	0.00	
T304	Max Grade- %	16	No	0.04	
T304	Sign	3	No	0.14	WILL_C3_054 6
T400	Trailhead	1	No	0.00	WILL_C3_051 5
T400	Sign	1	No	0.00	WILL_C3_051
T400	Gate	1	No	0.00	
T400	Bench	3	No	0.01	
T400	Begin Section	1	No	0.02	WILL_C3_051 7
T400	Begin Section	1	No	0.07	WILL_C3_051 8
T400	Lookout/Ob Deck	1	No	0.09	-
T400	Begin Section	1	No	0.11	WILL_C3_051
T400	Boardwalk -If	38	No	0.12	WILL_C3_052 0

T400	Sign	1	No	0.12	WILL_C3_052
T400	Step: Log -each	38	No	0.13	1
T400	Bench	1	No	0.13	
T400	Max Grade- %	31	No	0.16	
T400	Sign	1	No	0.17	WILL_C3_052 2
T400	Step: Log -each	35	No	0.19	
T400	Sign	1	No	0.23	WILL_C3_052
T400	Step: Log -each	8	No	0.26	
T400	Boardwalk -If	12	No	0.27	WILL_C3_052 5
T400	Sign	1	No	0.29	WILL_C3_052 6
T400	Step: Log -each	7	No	0.36	
T400	Sign	1	No	0.36	WILL_C3_052 7
T400	Sign	1	No	0.42	WILL_C3_052 8
T400	Sign	1	No	0.45	WILL_C3_052 9
T400	Step: Log -each	16	No	0.46	
T400	Step: Log -each	62	No	0.49	
T400	Boardwalk -If	7	No	0.50	WILL_C3_053
T400	Sign	1	No	0.51	WILL_C3_053
T400	Boardwalk -If	12	No	0.51	WILL_C3_053
T400	Sign	1	No	0.52	WILL_C3_053
T400	Step: Log -each	6	No	0.52	
T400	Boardwalk -If	12	No	0.52	WILL_C3_053
T400	Boardwalk -If	12	No	0.57	WILL_C3_053
T400	Begin Section	1	No	0.58	WILL_C3_053
T400	Bench	7	No	0.58	
T400	Sign	1	No	0.64	WILL_C3_053
T400	Step: Log -each	26	No	0.69	
T400	Bench	1	No	0.69	
T400	Puncheon -If	44	No	0.70	WILL_C3_053
T400	Sign	1	No	0.70	WILL_C3_053
T400	Sign	1	No	0.72	WILL_C3_054 0

T400	Boardwalk -If	20	No	0.72	WILL_C3_054 1
T400	Boardwalk -If	14	No	0.73	WILL_C3_054 2
T400	Boardwalk -If	10	No	0.74	WILL_C3_054 4
T400	Sign	1	No	0.74	WILL_C3_054 3
T400	Step: Log -each	7	No	0.76	

sf - square feet If - linear feet

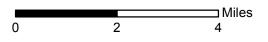
cf - cubic feet

## Willapa NWR Trail Location Map









#### Trails ID

Station Name: Willapa NWR Org Code: 13552

Trail Number	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T200	Bearberry Trail	Native	10003747	2.65	From Leadbetter Trail (T300) Sec 003 to Leadbetter Trail (T300) Sec 005
T200	Bearberry Trail	Other	10003747	0.59	From Leadbetter Trail (T300) Sec 003 to Leadbetter Trail (T300) Sec 005
T201	Paradise Point Spur Trail	Native	10003692	0.09	From Paradise Point Trail (T302) to end of trail
T202	Sand Spit Trail	Native	10003689	0.52	From Centerline Road Trail (T300) to end of trail at campground
T203	Sawlog Trail	Native	10003690	0.67	From Centerline Road Trail (T300) to end of trail at campground
T204	Smoky Hallow Trail	Native	10003689	0.26	From Centerline Road Trail (T300) to end of trail at the beach
T205	Don Bonker Trail	Native	10042349	0.58	From Centerline Road Trail (T300) to end of trail loop
T206	High Point Trail	Native	10003688	0.86	From Centerline Road Trail (T300) to end of trail at the beach
T300	Leadbetter Bay Loop Trail	Gravel	10003746	0.07	From Leadbetter Bay Parking (Rte 903) to end of Sec 005 at refuge boundary
T300	Leadbetter Bay Loop Trail	Native	10003746	0.69	From Leadbetter Bay Parking (Rte 903) to end of Sec 005 at refuge boundary
T300	Leadbetter Bay Loop Trail	Other	10003746	0.38	From Leadbetter Bay Parking (Rte 903) to end of Sec 005 at refuge boundary
T301	Center Road Trail	Admin Road	10003687	5.54	From Boat Launch on Long Island to end of trail at Lewis Campground
T301	Center Road Trail	Native	10003687	1.62	From Boat Launch on Long Island to end of trail at Lewis Campground
T302	Paradise Point Trail	Native	10003691	3.19	From Center Road Trail (T301) to trail tread indistiguishable
T303	Lewis Camp Trail	Native	10003687	0.22	From Boat Launch on Long Island to end of trail at Lewis Campground
T304	Teal Slough Trail	Admin Road	10036822	0.34	From Teal Slough Parking (Rte 907) to fork in road

T400	Salmon Art Trail	Boardwalk	10053967	0.11	From Headquarters Parking (Rte 900) to end of trail loop
T400	Salmon Art Trail	Gravel	10053967	0.02	From Headquarters Parking (Rte 900) to end of trail loop
T400	Salmon Art Trail	Native	10053967	0.47	From Headquarters Parking (Rte 900) to end of trail loop
T400	Salmon Art Trail	Wood Chip	10053967	0.22	From Headquarters Parking (Rte 900) to end of trail loop

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	0.25		0 0.25	5	0.5	0.	75	
							Miles	
	Excellent	<b>G</b> o	ood Fair		Poor	Very Poo	or 💮	Admin Road
$\triangle$	Begin Section	<b>[</b> ]	Check Dam		Step Feature	$\bowtie$	Gate	N <sub>N</sub>
T)	Trailhead	~	Retaining Wall		Max. Grade	$\succ$	Bridge	W TO E
Ŕī	Trail Sign	1	Raised Trail Structure	₩	Min. Width	<del>7\</del>	Bench	S
	Drainage Structure		Water Bar	+	Intersection	×	Other	Station Boundary

Trail Name:Bearberry TrailRefuge Name:Willapa NWRTrail Number:T200Region: 1Total Length:3.24 Miles

Section Number	001	002	003
Section Length (miles)	1.35	0.59	1.30
SAMMS Number	10003747	10003747	10003747
Rating Date	05/16/2007	08/21/2012	08/21/2012
Trail Section Information			
Trail Class	TC2	TC2	TC2
Surface Type	Native	Other	Native
Surface Firmness	Soft	Very Soft	Very Soft
Width (inches)	24	240	24
Average Grade (%)	6.9	6.9	6.9
Average X-slope (%)	1.20	1.20	1.20
Trail Condition Information			
Deferred Maintenance			
CRV	\$34,364	\$0	\$33,055
FCI	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent

Deferred Maintenance	CRV	FCI	Condition
	\$67,419	0.00	Excellent



Trail Name:Paradise Point Spur TrailRefuge Name:Willapa NWRTrail Number:T201Region: 1

Section Number	001
Section Length (miles)	0.09
SAMMS Number	10003692
Rating Date	05/17/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	36
Average Grade (%)	3.5
Average X-slope (%)	2.70
Trail Condition Information	
Deferred Maintenance	
CRV	\$2,300
FCI	0.00
Condition	Excellent

#### **Trail Condition TOTALS**

Deferred Maintenance	CRV	FCI	Condition
	\$2,300	0.00	Excellent

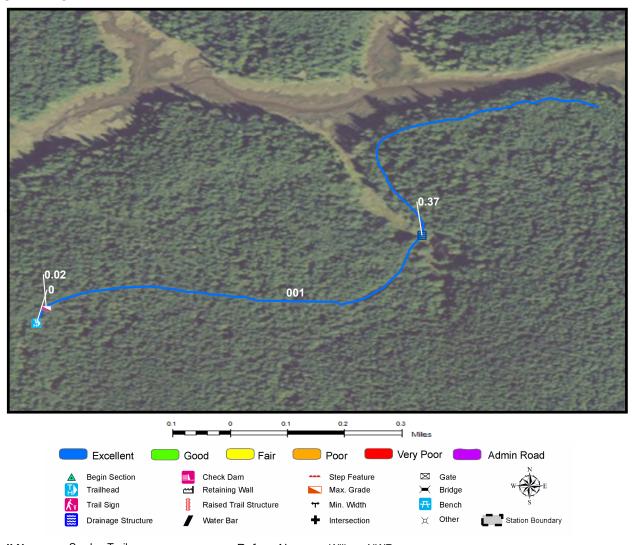
Total Length: 0.09 Miles



Trail Name:Sand Spit TrailRefuge Name:Willapa NWRTrail Number:T202Region: 1Total Length:0.52 Miles

Section Number	001
Section Length (miles)	0.52
SAMMS Number	10003689
Rating Date	05/19/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	60
Average Grade (%)	9.9
Average X-slope (%)	3.70
Trail Condition Information	
Deferred Maintenance	
CRV	\$13,310
FCI	0.00
Condition	Excellent

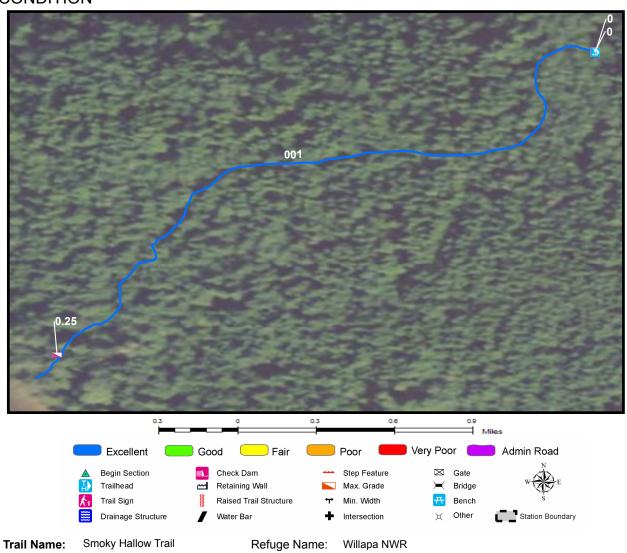
Deferred Maintenance	CRV	FCI	Condition
	\$13,310	0.00	Excellent



Trail Name:Sawlog TrailRefuge Name:Willapa NWRTrail Number:T203Region: 1Total Length:0.67 Miles

Section Number	001
Section Length (miles)	0.67
SAMMS Number	10003690
Rating Date	05/19/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	48
Average Grade (%)	4.2
Average X-slope (%)	2.60
Trail Condition Information	
Deferred Maintenance	
CRV	\$17,030
FCI	0.00
Condition	Excellent

Deferred Maintenance	CRV	FCI	Condition
	\$17,030	0.00	Excellent

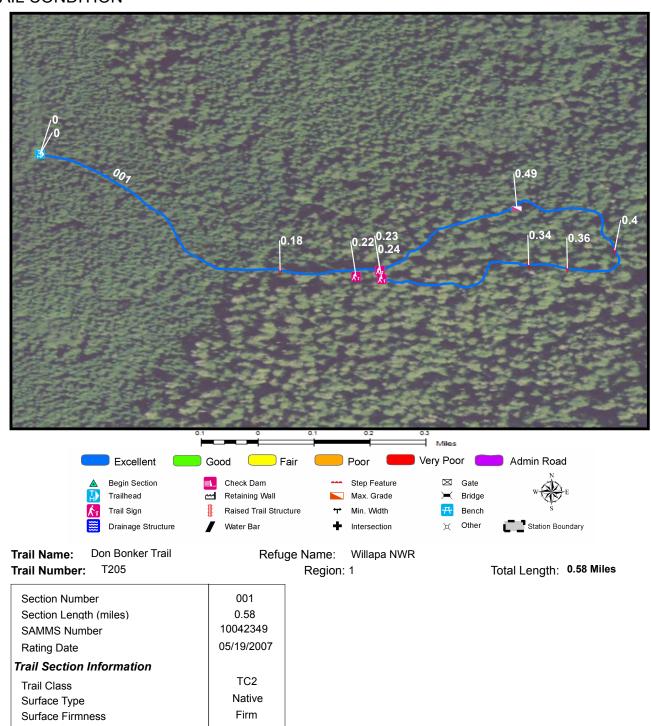


Trail Name: Smoky Hallow Trail Refuge Name: Willapa NWR

Trail Number: T204 Region: 1 Total Length: 0.26 Miles

Section Number	001
Section Length (miles)	0.26
SAMMS Number	10003689
Rating Date	05/19/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	48
Average Grade (%)	5.4
Average X-slope (%)	1.70
Trail Condition Information	
Deferred Maintenance	
CRV	\$6,701
FCI	0.00
Condition	Excellent

Deferred Maintenance	CRV	FCI	Condition
	\$6,701	0.00	Excellent



Section Number	001
Section Length (miles)	0.58
SAMMS Number	10042349
Rating Date	05/19/2007
Trail Section Information	
Trail Class	TC2
Surface Type	Native
Surface Firmness	Firm
Width (inches)	48
Average Grade (%)	4.6
Average X-slope (%)	3.30
Trail Condition Information	
Deferred Maintenance	
CRV	\$14,904
FCI	0.00
Condition	Excellent

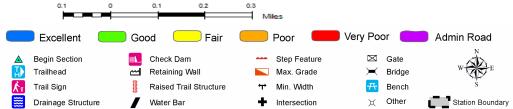
Deferred Maintenance	CRV	FCI	Condition
	\$14,904	0.00	Excellent



Section Number	001	002	003
Section Length (miles)	0.48	0.17	0.21
SAMMS Number	10003688	10003688	10003688
Rating Date	05/19/2007	05/19/2007	05/19/2007
Trail Section Information			
Trail Class	TC2	TC2	TC2
Surface Type	Native	Native	Native
Surface Firmness	Firm	Firm	Firm
Width (inches)	60	60	60
Average Grade (%)	8.8	8.8	8.8
Average X-slope (%)	2.40	2.40	2.40
Trail Condition Information			
Deferred Maintenance			
CRV	\$12,334	\$4,280	\$5,276
FCI	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent

Deferred Maintenance	CRV	FCI	Condition
	\$21,890	0.00	Excellent





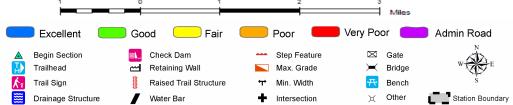
**Trail Name:** Leadbetter Bay Loop Trail Refuge Name: Willapa NWR

**Trail Number:** T300 Region: 1 Total Length: **1.14 Miles** 

Section Number	001	002	003	004
Section Length (miles)	0.07	0.38	0.62	0.07
SAMMS Number	10003746	10003746	10003746	10003746
Rating Date	05/16/2007	08/21/2012	05/16/2007	05/16/2007
Trail Section Information				
Trail Class	TC4	TC2	TC3	TC3
Surface Type	Gravel	Other	Native	Native
Surface Firmness	Firm	Very Soft	Soft	Firm
Width (inches)	60	240	28	42
Average Grade (%)	3.8	3.8	3.8	3.8
Average X-slope (%)	6.90	6.90	6.90	6.90
Trail Condition Information				
Deferred Maintenance	\$0			
CRV	\$1,982	\$0	\$15,716	\$1,667
FCI	0.00	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent	Excellent

Deferred Maintenance	CRV	FCI	Condition
\$0	\$19,364	0.00	Excellent





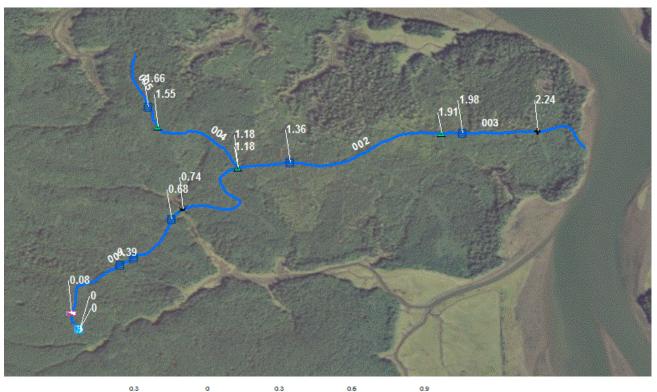
**Trail Name:** Center Road Trail Refuge Name: Willapa NWR **Trail Number:** T301 Region: 1

003 Section Number 001 002 Section Length (miles) 4.39 1.15 1.62 10003687 10003687 10003687 SAMMS Number 05/17/2007 05/17/2007 05/17/2007 Rating Date Trail Section Information TC3 TC3 TC3 Trail Class Admin Road Admin Road Native Surface Type Surface Firmness Firm Firm Firm Width (inches) 120 120 72 Average Grade (%) 4.2 4.2 4.2 Average X-slope (%) 3.80 3.80 3.80 **Trail Condition Information Deferred Maintenance** \$41,437 CRV 0.00 FCI Excellent Condition

#### **Trail Condition TOTALS**

Deferred Maintenance	CRV	FCI	Condition
	\$41,437	0.00	Excellent

Total Length: 7.16 Miles



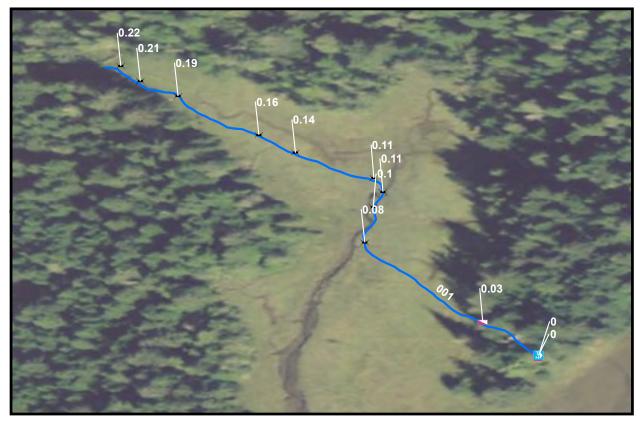
	0.3	0	0.3		0.6	0.9 Miles		
	Excellent	Go	od Fair		Poor	Very Poo	or 💮	Admin Road
	Begin Section Trailhead	<u>.</u> ~	Check Dam Retaining Wall		Step Feature Max. Grade	$\bowtie$	Gate Bridge	W E
Ŕī	Trail Sign	1	Raised Trail Structure	₩	Min. Width	<del>//</del>	Bench	Š
	Drainage Structure		Water Bar	+	Intersection	×	Other	Station Boundary

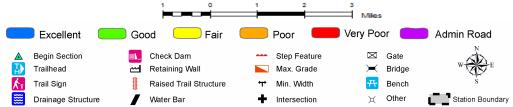
**Trail Name:** Paradise Point Trail

Refuge Name: Willapa NWR Total Length: 3.19 Miles Trail Number: T302 Region: 1

Section Number	001	002	003	004	005
Section Length (miles)	1.18	0.73	0.55	0.37	0.36
SAMMS Number	10003691	10003691	10003691	10003691	10003691
Rating Date	05/17/2007	05/17/2007	05/17/2007	05/17/2007	05/17/2007
Trail Section Information					
Trail Class	TC3	TC3	TC3	TC2	TC1
Surface Type	Native	Native	Native	Native	Native
Surface Firmness	Firm	Firm	Firm	Firm	Firm
Width (inches)	120	60	48	72	36
Average Grade (%)	6.8	6.8	6.8	6.8	6.8
Average X-slope (%)	2.20	2.20	2.20	2.20	2.20
Trail Condition Information					
Deferred Maintenance	\$109				
CRV	\$30,127	\$18,745	\$13,919	\$9,479	\$9,290
FCI	0.00	0.00	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent	Excellent	Excellent

Deferred Maintenance	CRV	FCI	Condition
\$109	\$81,560	0.00	Excellent





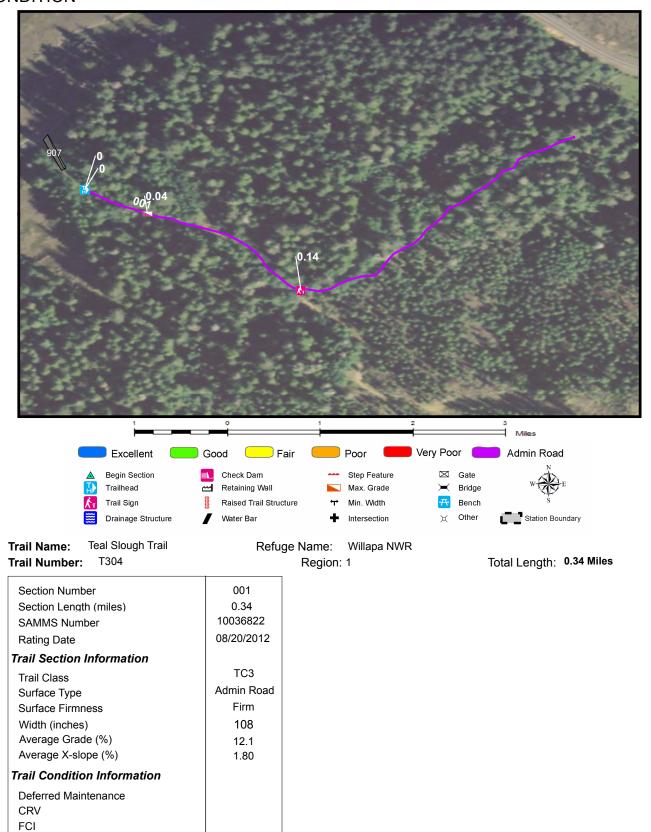
Trail Name:Lewis Camp TrailRefuge Name:Willapa NWRTrail Number:T303Region: 1

Section Number	001
Section Length (miles)	0.22
SAMMS Number	10003687
Rating Date	05/17/2007
Trail Section Information	
Trail Class	TC1
Surface Type	Native
Surface Firmness	Firm
Width (inches)	36
Average Grade (%)	4.2
Average X-slope (%)	3.80
Trail Condition Information	
Deferred Maintenance	
CRV	\$5,643
FCI	0.00
Condition	Excellent

#### **Trail Condition TOTALS**

Deferred Maintenance	CRV	FCI	Condition
	\$5,643	0.00	Excellent

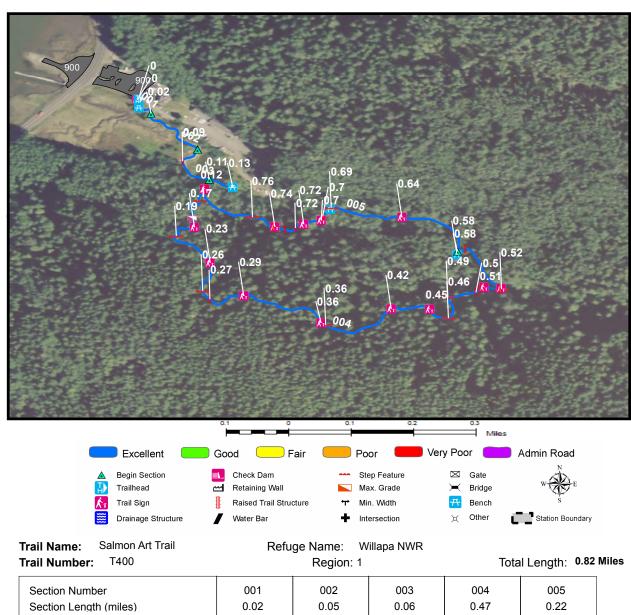
Total Length: 7.38 Miles



#### **Trail Condition TOTALS**

Deferred Maintenance	CRV	FCI	Condition

Condition



Section Number	001	002	003	004	005
Section Length (miles)	0.02	0.05	0.06	0.47	0.22
SAMMS Number	10053967	10053967	10053967	10053967	10053967
Rating Date	05/18/2007	05/18/2007	05/18/2007	05/18/2007	05/18/2007
Trail Section Information					
Trail Class	TC4	TC4	TC4	TC3	TC3
Surface Type	Gravel	Boardwalk	Boardwalk	Native	Wood Chip
Surface Firmness	Firm	Hard	Hard	Soft	Soft
Width (inches)	54	48	48	24	24
Average Grade (%)	7.8	7.8	7.8	7.8	7.8
Average X-slope (%)	1.90	1.90	1.90	1.90	1.90
Trail Condition Information					
Deferred Maintenance					
CRV	\$559	\$7,183	\$8,541	\$12,006	\$2,867
FCI	0.00	0.00	0.00	0.00	0.00
Condition	Excellent	Excellent	Excellent	Excellent	Excellent

Deferred Maintenance	CRV	FCI	Condition
	\$31,156	0.00	Excellent

#### TRAIL DEFICIENCY



**Trail Name:** Leadbetter Bay Loop Trail Refuge Name: Willapa NWR **Trail Number:** T300 Region: 1

Mile Post	0.04	
Section Number	001	
Photo Number	WILL_C3_0627	
Deficiency	Trail Location	
Action	Remove	
Item	Trail: Social -If	
Quantity	600	
Deferred Maintenance	\$0	

Total Length: 1.14 Miles

#### TRAIL DEFICIENCY



Total Length: 3.19 Miles

5 - 2

Trail Name:Paradise Point TrailRefuge Name:Willapa NWRTrail Number:T302Region: 1

0.74 Mile Post 001 Section Number Photo Number WILL\_C3\_0575 Trail Structure Deficiency Repair Action Tread -sf Item Quantity 25 **Deferred Maintenance** \$109

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0592 - MP 0.00 - Trailhead

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 05/16/2007



Photo # WILL\_C3\_0590 - MP 0.00 - Sign

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 05/16/2007



Photo # WILL\_C3\_0593 - MP 0.19 - Sign

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 05/16/2007



Photo # WILL\_C3\_0594 - MP 1.23 - Sign

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 05/16/2007



Photo # WILL\_C3\_0595 - MP 1.24 - Sign

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0596 - MP 1.35 - Begin Section

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0597 - MP 1.94 - Begin Section

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 08/21/2012

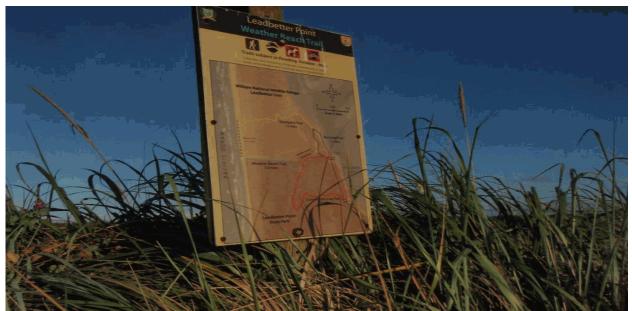


Photo # WILL\_C3\_0598 - MP 1.99 - Sign

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0599 - MP 1.99 - Sign

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0600 - MP 1.99 - Sign

TRAIL NUMBER: T200 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0601 - MP 2.78 - Sign

TRAIL NUMBER: T201 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0579 - MP 0.00 - Trailhead

TRAIL NUMBER: T202 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0621 - MP 0.00 - Trailhead

TRAIL NUMBER: T202 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0620 - MP 0.00 - Sign

TRAIL NUMBER: T202 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0619 - MP 0.52 - Sign

TRAIL NUMBER: T203 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0570 - MP 0.00 - Trailhead

TRAIL NUMBER: T204 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0566 - MP 0.00 - Sign

TRAIL NUMBER: T204 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0568 - MP 0.00 - Trailhead

TRAIL NUMBER: T205 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0558 - MP 0.00 - Intersection



Photo # WILL\_C3\_0557 - MP 0.00 - Trailhead

TRAIL NUMBER: T205 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0559 - MP 0.18 - Boardwalk -If



Photo # WILL\_C3\_0560 - MP 0.22 - Sign

TRAIL NUMBER: T205 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0561 - MP 0.23 - Sign



Photo # WILL\_C3\_0565 - MP 0.24 - Sign

TRAIL NUMBER: T205 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0564 - MP 0.34 - Boardwalk -If



Photo # WILL\_C3\_0563 - MP 0.36 - Boardwalk -If

TRAIL NUMBER: T205 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0562 - MP 0.40 - Boardwalk -If



Photo # WILL\_C3\_0550 - MP 0.00 - Trailhead

TRAIL NUMBER: T206 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0549 - MP 0.00 - Sign



Photo # WILL\_C3\_0551 - MP 0.00 - Intersection

TRAIL NUMBER: T206 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0553 - MP 0.48 - Begin Section



Photo # WILL\_C3\_0552 - MP 0.48 - Sign

TRAIL NUMBER: T206 STATION: Willapa NWR DATE: 05/19/2007



Photo # WILL\_C3\_0554 - MP 0.63 - Sign



Photo # WILL\_C3\_0555 - MP 0.48 - Begin Section

TRAIL NUMBER: T300 STATION: Willapa NWR DATE: 05/16/2007



Photo # WILL\_C3\_0582 - MP 0.00 - Trailhead



Photo # WILL\_C3\_0581 - MP 0.00 - Sign

TRAIL NUMBER: T300 STATION: Willapa NWR DATE: 05/16/2007



Photo # WILL\_C3\_0584 - MP 0.06 - Boardwalk -If



Photo # WILL\_C3\_0585 - MP 0.06 - Sign

TRAIL NUMBER: T300 STATION: Willapa NWR DATE: 08/21/2012

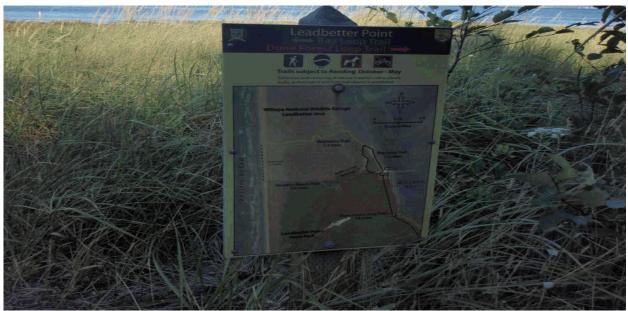


Photo # WILL\_C3\_0586 - MP 0.07 - Sign



Photo # WILL\_C3\_0583 - MP 0.07 - Begin Section

TRAIL NUMBER: T300 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0587 - MP 0.45 - Begin Section



Photo # WILL\_C3\_0588 - MP 0.45 - Sign

TRAIL NUMBER: T300 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0589 - MP 0.46 - Sign



Photo # WILL\_C3\_0591 - MP 0.56 - Intersection

TRAIL NUMBER: T300 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0605 - MP 0.99 - Sign



Photo # WILL\_C3\_0604 - MP 1.01 - Sign

TRAIL NUMBER: T300 STATION: Willapa NWR DATE: 05/16/2007



Photo # WILL\_C3\_0603 - MP 1.07 - Begin Section



Photo # WILL\_C3\_0602 - MP 1.08 - Sign

TRAIL NUMBER: T300 STATION: Willapa NWR DATE: 08/21/2012



Photo # WILL\_C3\_0606 - MP 1.11 - Sign



Photo # WILL\_C3\_0547 - MP 0.00 - Trailhead

TRAIL NUMBER: T301 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0548 - MP 1.00 - Sign



Photo # WILL\_C3\_0556 - MP 2.64 - Sign

TRAIL NUMBER: T301 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0567 - MP 2.87 - Intersection



Photo # WILL\_C3\_0569 - MP 3.94 - Intersection

TRAIL NUMBER: T301 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0572 - MP 4.40 - Begin Section



Photo # WILL\_C3\_0622 - MP 4.87 - Intersection

TRAIL NUMBER: T301 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0623 - MP 5.54 - Begin Section



Photo # WILL\_C3\_0573 - MP 0.00 - Trailhead

TRAIL NUMBER: T302 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0571 - MP 0.00 - Intersection



Photo # WILL\_C3\_0574 - MP 0.74 - Bridge -sf

TRAIL NUMBER: T302 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0628 - MP 1.18 - Begin Section



Photo # WILL\_C3\_0577 - MP 1.91 - Begin Section

TRAIL NUMBER: T302 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0578 - MP 2.24 - Intersection



Photo # WILL\_C3\_0576 - MP 1.18 - Begin Section

TRAIL NUMBER: T302 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0580 - MP 1.55 - Begin Section



Photo # WILL C3 0607 - MP 0.00 - Sign

TRAIL NUMBER: T303 STATION: Willapa NWR DATE: 08/22/2012



Photo # WILL\_C3\_0618 - MP 0.00 - Trailhead



Photo # WILL\_C3\_0608 - MP 0.08 - Bridge -sf

TRAIL NUMBER: T303 STATION: Willapa NWR DATE: 08/22/2012



Photo # WILL\_C3\_0609 - MP 0.10 - Bridge -sf



Photo # WILL\_C3\_0611 - MP 0.11 - Bridge -sf

TRAIL NUMBER: T303 STATION: Willapa NWR DATE: 05/17/2007



Photo # WILL\_C3\_0610 - MP 0.11 - Bridge -sf



Photo # WILL\_C3\_0612 - MP 0.14 - Bridge -sf

TRAIL NUMBER: T303 STATION: Willapa NWR DATE: 08/22/2012



Photo # WILL\_C3\_0613 - MP 0.16 - Bridge -sf



Photo # WILL\_C3\_0614 - MP 0.19 - Bridge -sf

TRAIL NUMBER: T303 STATION: Willapa NWR DATE: 08/22/2012



Photo # WILL\_C3\_0615 - MP 0.21 - Bridge -sf



Photo # WILL\_C3\_0616 - MP 0.22 - Bridge -sf

TRAIL NUMBER: T304 STATION: Willapa NWR DATE: 05/18/2007



Photo # WILL\_C3\_0545 - MP 0.00 - Trailhead



Photo # WILL\_C3\_0546 - MP 0.14 - Sign

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 08/20/2012



Photo # WILL\_C3\_0516 - MP 0.00 - Sign



Photo # WILL\_C3\_0515 - MP 0.00 - Trailhead

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 05/18/2007



Photo # WILL\_C3\_0517 - MP 0.02 - Begin Section



Photo # WILL\_C3\_0518 - MP 0.07 - Begin Section

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 05/18/2007



Photo # WILL\_C3\_0519 - MP 0.11 - Begin Section

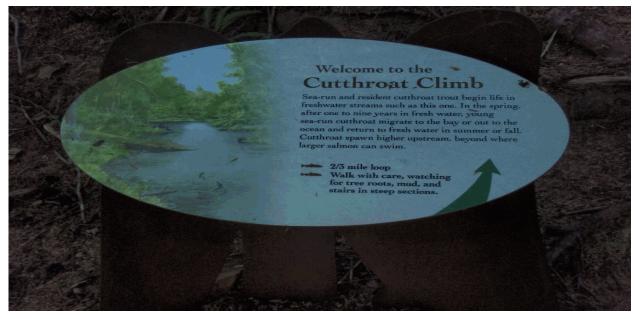


Photo # WILL\_C3\_0521 - MP 0.12 - Sign

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 05/18/2007



Photo # WILL\_C3\_0520 - MP 0.12 - Boardwalk -If

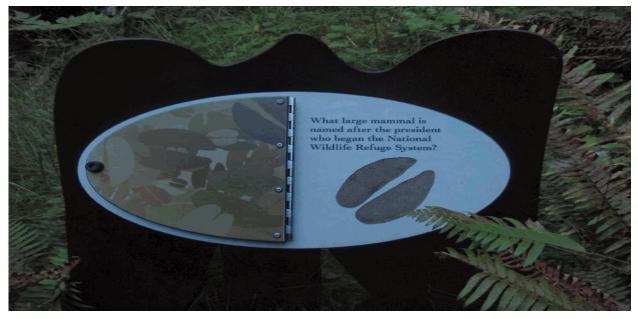


Photo # WILL\_C3\_0522 - MP 0.17 - Sign

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 08/20/2012

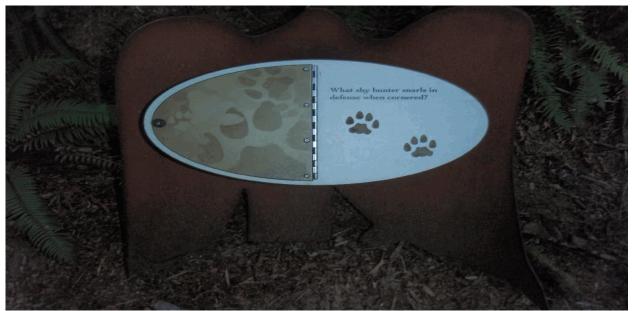


Photo # WILL\_C3\_0523 - MP 0.23 - Sign



Photo # WILL\_C3\_0525 - MP 0.27 - Boardwalk -If

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 08/20/2012



Photo # WILL\_C3\_0526 - MP 0.29 - Sign



Photo # WILL\_C3\_0527 - MP 0.36 - Sign

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 08/20/2012



Photo # WILL\_C3\_0528 - MP 0.42 - Sign



Photo # WILL\_C3\_0529 - MP 0.45 - Sign

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 05/18/2007



Photo # WILL\_C3\_0530 - MP 0.50 - Boardwalk -If



Photo # WILL\_C3\_0532 - MP 0.51 - Sign

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 05/18/2007



Photo # WILL\_C3\_0531 - MP 0.51 - Boardwalk -If

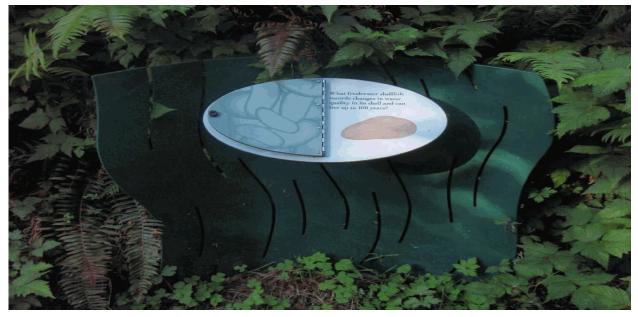


Photo # WILL\_C3\_0534 - MP 0.52 - Sign

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 05/18/2007



Photo # WILL\_C3\_0533 - MP 0.52 - Boardwalk -If



Photo # WILL\_C3\_0535 - MP 0.57 - Boardwalk -If

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 08/20/2012



Photo # WILL\_C3\_0536 - MP 0.58 - Begin Section



Photo # WILL\_C3\_0537 - MP 0.64 - Sign

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 08/20/2012



Photo # WILL\_C3\_0539 - MP 0.70 - Sign



Photo # WILL C3 0538 - MP 0.70 - Puncheon -If

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 08/20/2012



Photo # WILL\_C3\_0540 - MP 0.72 - Sign



Photo # WILL\_C3\_0541 - MP 0.72 - Boardwalk -If

TRAIL NUMBER: T400 STATION: Willapa NWR DATE: 05/18/2007



Photo # WILL\_C3\_0542 - MP 0.73 - Boardwalk -If



Photo # WILL\_C3\_0543 - MP 0.74 - Sign



Photo # WILL\_C3\_0544 - MP 0.74 - Boardwalk -If

# **Glossary of Terms and Abbreviations**

Acc Info Accessibility information available at trailhead.

**Action** Action required to correct deficiency.

Admin Road Administration Road. Admin Roads signed and

advertised as trails are included in the trail inventory but

a condition assessment is NOT done.

**Alt SAMMS** SAMMS number of Alternate Facility Type.

Alt Type Alternate Facility Type. Trail lies on a feature such as a

levee, dam, administrative road or bridge, which has a

separate SAMMS number.

**AvgGrade** The average grade of the trail (%). The average of five

measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.

**AvgSlope** The average cross-slope of the trail (%). The average of

five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.

**Check Dam** A small dam constructed across a drainage ditch, swale,

or channel to lower the speed of concentrated flows.

**Condition** Subjective rating of trail based on Facility Condition

Index (FCI):

FCI </= - .01 = Excellent FCI .02 - .05 = Good FCI .06 - .10 = Fair FCI .11 - .20 = Poor FCI > - .20 = Failed

**Crib Wall** Retaining wall.

Current

Replacement Value

(CRV)

The value of an asset determined by the estimated cost of

replacing it.

**Def type** Deficiency Type: Trail Structure, Drainage, Erosion,

Obstacle, Trail Location, Other.

Deferred

**Maintenance (DM)** 

Maintenance that was not performed when scheduled.

i

**Elem ID** Unique identifier for each trail section: Org Code-Trail

Number-Section Number.

**Facility** 

**Condition Index (FCI)** 

DM/CRV

**Grouped Features** Grouped features include non-unique signs (mileposts,

interpretive signs, species identification, etc.), water bars, check dams, steps, drain and drainage dips. For any given grouped feature, a GPS point and photo are taken for the first occurrence only and the total number of features in the group are entered into the "quantity"

field of the data dictionary.

**Info Type** Type of accessibility information available at trailhead:

brochure, sign or other.

**Item** Item on which the "Action" (see above) will be

performed.

Manage\_Use Managed use of the trail: HIKE, BIKE, NSPC (non-

specified), PACK, POR (portage), SNOWSHOE, XSKI

(cross-country ski), OTHER.

**MP** Distance of a trail feature or deficiency from the

Trailhead.

**Puncheon** Log footbridge used in area of poor drainage.

Raised Trail Structure Boardwalk, Turnpike, Puncheon.

**T Class** Trail Class: I-V (see Appendix? for trail class

descriptions).

**Tr Desig** Trail Designation: Standard (Std), National Historic Trail

(NHT), National Recreation Trail (NRT), National

Scenic Trail (NST).

**Turnpike** Trail tread elevated with dirt, rock or other aggregate

from parallel side ditches and held in place by logs.